

MOSONYI, EMIL.

Water power development. Budapest, Publishing House of the Hungarian Academy of Sciences. (In English. Tr. from the Hungarian. illus., ports., maps, bibl., diagrs. (part fold. in pocket), graphs, indexes, tables)

Vol. 1. (Low-head power plants. Includes six supplements) 1957. 908 p.

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

MOSONYI, I.

Development of the wood industry, p. 209, AZ ERDO (Orszagos Erdeszeti
Egyesulet) Budapest, Vol. 5, No. 6, June 1956

SOURCE: East European Accesions List (EEAL) Library of Congress,
Vol. 5, No. 11, November 1956

MOSONYI, E.

Commemoration of Pal Vasarhelyi. P. 239 KOZLEMENYEI
Budapest, Vol. 18, no. 1/4, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

MOSONYI, E.

MOSONYI, E. In memory of Paul Vaserhelyi. In English. p. 431.

Vol. 13, No. 3/4, 1955

ACTA TECHNICA

SCIENCE

Budapest, Hungary

See: East European Accession, Vol. 5, No. 5, May 1956

MOSCOWI, E.

General plan for the national water-supply economy. p. 5^a.
(RELIEF INSTITUTE OF THE USSR. Vol. 5, no. 6, June 1955. Reduc'd.)

SL: Monthly List of East European accession. 1955. No. 1. Moscow, 1955. Vol. 1, No. 1.

MOSONYI, L.; VARKONYI, A.

Data on the theory and evaluation of erythrocyte sedimentation. Magy.
belov. arch. 3 no. 4:139-143 1950. (CIML 25:5)

1. Doctor. 2. Second Internal Clinic (Director -- Prof. Dr. Imre
Haynal), Lorand Eotvos University.

MOSONYI, L.

New problems in allergology. Orv. hetil. 94 no. 39:1079-1086 27 Sept
(GIML 25:5)
1953.

1. Doctor. 2. Second Internal Clinic (Director -- Prof. Dr. Imre Haynal).
Budapest Medical University.

Country : HUNGARY
Category : Human and Animal Physiology.
Inner Secretion. General Problems.
Ref. Jour. : Ref Zhur-Piol., No 23, 1958, 106602

Author : Mosonyi, Laszlo; Matsch, Jeno
Institut. : Hungarian Academy of Biology.
Title : Clinical Observation of the Role Played by
Thyrotropin and Thyroxin in the Metabolism
of Water.
Ori. Pub. : Magyar tud. akad. Biol. es orv. tud. oszt.
kozl., 1956, 7, No 1-3, 133-147

Abstract : The role played by the thyrotropic hormone as
regards water metabolism (WM) was investigated
in patients with a dysfunction of the hypophysis
and thyroid gland systems. With treatment,
substantial changes of WM were observed.
These changes are related to the changed
functions and of also other inner secretion
glands. In hypothyreosis, retention of water in
the organism becomes intensified. When this
condition is treated with thyroxin, however,

Carl:

1/2

Action of dinitrophenol on the metabolism of the denervated muscle. B. Issekutz, Jr., G. Hetenyi, Jr., M. Winter, M. Mesonyi, M. Horvath, I. Lajos, and J. Lang (Univ. Med. School, Szeged). Acta Physiol Acad Sci Hung. 19, 327-33 (1964) [in English]. — The left hind limb of the dog was denervated 3 weeks prior to the exp. The basal blood flow, O₂ uptake and P output were higher and the adenine triphosphate (ATP) and glycogen contents lower in the denervated (II) limb than in the innervated (I) one. Following 8 mg./kg. dinitrophenol, blood flow and O₂ uptake increased less and lactic acid output was smaller in I than in II, but glucose uptake and P output increased equally in both. ATP and glycogen contents were reduced but the regeneration of ATP and the utilization of carbohydrate were higher in II than in I.

J. H. C.

MISONYI, M.

KORPASSY, B.; MOSONI, M.

Influence of dietary protein on the carcinogenic activity of tannic acid.
Acta morph hung. 3 no.3:353-362 1953. (CLML 25:5)

1. Of the Department of Pathological Anatomy and Histology (Director--
Prof. B. Korpasy, M.D.) of Szeged University.

HUNGARY/Chemical Technology. Chemical Products
and Their Applications. Medicinal Sub-
stances. Vitamins. Antibiotics. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20538

Author : Mosonyi, Mihalyne; Kelenenne, Kuttal Ilze

Inst : -

Title : Gravimetric Determination of Hexylresorcin.

Orig Pub : Acta pharmac. hung., 1957, 27, No 3, 102-
107

Abstract : A new gravimetric method is proposed for
the quantitative determination of hexyl-
resorcin (1,3-dioxy-4-hexylbenzene) (I)
in the form of a non-soluble dinitrose
derivative (II). 0.1-0.13 g of I are dis-
solved in a mixture of water, alcohol and

Card : 1/2

*254. Use of Sodium p-Nitrophenoxide in Analytical Chemistry. (In Russian) N. F. Sillin and N. K. Mosegin. Journal of Analytical Chemistry (USSR), v. 2, July-Aug. 1947, p. 210-214.
Points out applicability of the above: in oxide determination, as a moisture indicator; and as a dehydrating agent.

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MOSCII, F.

Examination of coal and its organic compounds. p.731.

ENERGIA "S ATOMTECHNIKA. (Energiaüzemekkel és Tudományos Egyesület)
Budapest, Hungary
Vol. 11, no.11/12, Nov./Dec. 1978

Monthly List of East European Acquisitions (EAT) IC., Vol. 4, no.1, July 1977
Uncl.

MOSOCZI, F.

Examination of the changes of lignite in drying at Petofibanya. p. 74.

(MACYAR ENERGIAGASDASAG, Budapest, Vol. 8, no. 2, Feb. 1955)

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955,
1 Uncl.

MCS^CZI, F.

Mineral substances in Hungarian coal and their effect on combustion technique.

p. 10 (Energia es Atomtechnika) Vol. 10, no. 1, Apr. 1957, Budapest, Hungary

SO: MONTHLY INDEX OF EAST EUROPEAN ACQUISITIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1959

Country : HUNGARY

F

Category: Laboratory Equipment. Instrumentation

Abs Jour: RZhKhim., No 17, 1959, No. 60672

Author : Mosoczi, F.; Kiss, E.

Inst :

Title : Investigation of Conditions in the Operation of
Calorimeter Bombs

Orig Pub: Energia es Atomtechn., 1958, 11, No 7-8, 456-459

Abstract: The authors point out to certain conditions, not
considered previously, in the employment of calo-
rimeter bombs. It is proposed to take such a quan-
tity of coal, that heat evolved in the experiment
would be equal to 1.5-2.2 cal/gr of calorimeter
weight. It is proposed to burn coal having a high

Card : 1/2

MOSOCZI, F.

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39. Data on the analysis of Hungarian coals -
Adatok a magyar szén elemzéséhez - F. Mosoczi. [Hungarian Power Economy - Magyar Energiaügynökség - Vol. 6, 1953, No. 9, pp. 253-258, 7 figs., 1 tab.]

The present classical methods of coal analysis are deficient in many respects especially concerning more recent coals. The present interpretation of analytical data cannot be used for the accurate evaluation of coal used for firing or for processing since, instead of the inorganic substances, the ash content is determined, which is far less than the former. The entire volatile content is assumed to be combustible in spite of its containing incombustible gases (CO_2 , N_2 , SO_2 , H_2O), the entire quantity of carbon is regarded as combustible although it contains the CO_3 of carbonates and the CO_2 formed as a result of the thermic decomposition of organic substances (humic acid, humates). The entire content of hydrogen is considered combustible without taking into account that it also includes the crystal water of the inorganic compounds as well as the decomposition water of organic compounds. In computing its calorific value on the basis of the elementary composition oxygen correction is only taken into account for hydrogen although this would be justified for carbon as well for the reasons mentioned above. The combustible volatiles, combustible carbon and combustible hydrogen contained in Hungarian coals have been determined by analyses and by distillation tests with the direct (short) method of analysis used thus far. A nomograph of the virtual combustible content is given.

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MOSOCZI, F.

Hungarian Technical Abst.
vol. 5 No. 4 1953

The graphic determination and composition of the carbon and hydrogen contents as well as the calorific value of Hungarian coals based on the heat of combustion (Gáspár et al., *Üzemi termelési rendszerek, valamint földgáz és szén termelésének műszaki előirányzatai*, Budapest, 1952, vol. II, pp. 337-349, 2 figs., 2 tables).

If the heat of combustion of moisture and ash-free Hungarian coals is brought into function with the hydrogen and carbon values of the fixed carbon, regular curves are obtained. Qualitative and quantitative changes occurring at carbonization can be followed precisely on the carbon curve and evaluated. Investigations proved that at a value of 7000 kcal per kg the carbon curve flattens out while at the same time the hydrogen curve attains its maximum. The heat of combustion of moisture and ash-free Hungarian coals is as follows: 6000-6500 kcal per kg for Middle Miocene, 6500-7000 for Middle and Lower Miocene, 7500-8000 for Eocene and over 8000 kcal per kg for Upper Cretaceous, Oligocene and Pliocene coal. Moreover the heat of combustion of the coal, its carbon content and the heat content within 0.5 per cent and its hydrogen content within 0.2 per cent by using the curves.

MOSOCZI, F.

"Volatile Material in Our Coals", P. 321, (MAGYAR ENERGIAGAZDASAG, Vol. 7, No. 7, July 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

MOSOCZI, F.; WAHLNÉ, A.

Characteristics of Hungarian fuels. o.266. MAGYAR ENERGIAKIADÓ Kft.
Budapest. Vol 7, no. 7, July 1956.

SOURCE: East European Accessions List (EAL), Library of Congress
Vol.5, No. 12, December 1956

Mosoczi, Ferenc

3

1776* (Hungarian.) Rate of Dissolution of Aluminated
Cryolite Solution. A tisztított előállítású schesegéje triólitával
deklarált. Péteri Mosoczi. *Kolozsvári Lapok*, v. 11, Oct. 1956, p.
465-471.

Description of apparatus and experimental method. Characterization of factors influencing dissolution rate.

MISC/42G

HUTTMANN, A.; MOSOIU, G.; BAROUHOGLU, B.; STEFANESCU, C.; TISCHLER, C.

Rheumatism in a forest environment. Probl. reumat., Bucur. 4:
201-212 1956.

(RHEUMATISM

in forest workers in Rumania, etiol. & incidence)

(OCCUPATIONAL DISEASES

rheum. in forest workers in Rumania, etiol. & incidence)

HUTTMANN, A.,; PASZTOR, P.,; GHERASIM, M.,; COJOCARU, L.,; CIRSTOCEA, I..
; NICULESCU, M.,; TAFFET, E.,; STAFANESCU, C.R.,; MOSOIU, G.

Diagnosis and therapy of sciatica; clinical study of 100 cases.
Probl. reumat., Bucur. Vol. II.:49-84 1974.

(SCIATICA

etiol, differ. diag. & ther.)

(INTERVERTEBRAL DISK DISPLACEMENT, compl.
sciatica, differ. diag. & ther.)

(POSTURE

in ther. of sciatica caused by intervertebral disk
displacement)

(PHYSICAL THERAPY, in various dis.
sciatica caused by intervertebral disk displacement)

TAUSINGER, A., Dr.; PAPP, M., dr.; MOLNAR, St., dr.; HUTTMANN, A., dr.; KOVACS, B., dr.; CIORAPCIU, S., dr.; MOSOIU, Gh., dr.; ULARIU, I., dr.

Reduction of venous circulation of the lower extremities in therapy of refractory cardiac insufficiency. Med.int., Bucur. 8 no.6:861-871 Oct 56.

1. Lucrare efectuata in sectiile de medicina interna, chirurgie si cardioreumatologie ale Spitalului unificat nr. 1, Orasul Stalin.
(CONGESTIVE HEART FAILURE, surgery
ligation of veins supplying lower extremities, indic.
& results)
(LEG, blood supply
reduction in ther. of refractory cardiac insuff.)

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7

Substitute for bearing metal - Ferenc Mowszky - Hung
110,730, Sept. 15, 1968. Sn 50.65, Sb 14.0-16.0, Cd
0.8-1.2, Cu 1.0-1.2, C not more than 0.1, P not more than 0.05%
is added to Pb and the alloy mechanically treated at
temps. not exceeding 400. Istvan Binaly

MOSOL'NIKOVA, T. K., MOSKOVSKAYA, V. A.

"*Hygienic principles of rendering harmless the city refuse
by the soil method.*"

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

1. MOSOLOV, E.V.; PANOV, A.V.
2. USSR (600)
4. Wheat
7. Several particularities of the nutrition of spring wheat. Sel.i sem. 19 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. MOSOLOV, I. V.; PANOV, A. V.
2. USSR (600)
4. Wheat
7. Effect of stem leaves of wheat on the yield and protein content of grain in relation to variety, Dokl. AN SSSR, 88, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Unclassified.

Mosolow, I.V.

U S S R .

✓ Physiological basis of the composition of the row fertiliser. I. V.
Mosolow and V. A. Aleksandrovskaia (Zemledelie, 1954, No. 10).
Application of N fertilisers in the row retards growth by
increasing the hydrolysis of starch, the intensity of respiration, and
the activity of oxidativ enzymes in the seed thus causing premature
decomposition of the org. matter of the seed. P fertilisers di-
minish starch hydrolysis and the enzyme activity before the assimila-
tory surfaces appear and increase them afterwards.

Soils & Fertil. (A.G.P.)

USSR/Physiology of Plants MOSOLOV, I. V.

Card 1/1

Authors : Mosolov, I. V. and Aleksandrovskaya, V.

Title : Effect of nitrogen and phosphorus on the hydrolysis of starch in sprouting grains of wheat.

Periodical : Dokl. AN SSSR, 95, 6, 1333 - 1336, 21 Apr 54

Abstract : The article describes the experimental study of phosphorus and nitrogen effects on the hydrolysis of starch in wheat grains. There are five tables compiled from these experiments. The first one shows the effect of phosphorus and nitrogen on the hydrolysis of wheat grains before they germinate. The second table shows the effect of the elements mentioned on the activity of a peroxidase in wheat sprouts. The third table shows the effect of the same elements (P & N) on the hydrolysis of starch in wheat grains when the assimilative surface appears. The fourth table shows the effect of phosphorus and nitrogen on activity of a peroxidase and absorption of oxygen by wheat grains after their germination. The fifth table shows effect of phosphorus and nitrogen on the weight of 100 plants on the fourth day after the wheat grains had germinated.

Institution : All Union Institute of Fertilizers, Ag. Technics & Ag. Soil Sciences

Submitted : 15 Feb 54

MOSOLOV, I.V.

USSR/Agriculture - Plant physiology

Card 1/1 Pub. 22 - 44/48

Authors : Mosolov, I. V.; Lapshina, A. N.; and Panova, A. V.

Title : Migration of radioactive Ca⁴⁵ calcium in plants during its introduction outside of the root.

Periodical : Dok. AN SSSR 98/3, 495-496, Sep 21, 1954

Abstract : The problem of whether radioactive Ca⁴⁵ introduced into the leaf and not the root of a plant migrates into other parts of the plant was investigated and the results are described. Table.

Institute : All-Union Institute of Fertilizers, Agro-Technique and Agricultural Soil Science.

Presented by: Academician A. L. Kursanov, June 15, 1954

MOSLOV, I.V.

AG

The entry of tagged phosphorus into plants in relation to the depth of placement in the soil. I. V. Moslov and A. V. Panova. *Pochvovedenie* 1955, No. 7, 92-5. Oats grown under conditions of varying methods of placing phosphates

(surface application, plowing under, with manure alone, with lime alone, and with manure and lime) show that plowing under brings about a more energetic entry of tagged P into the plants in the later stages of growth. Whichever method of placement was used the plants at flowering contained the same amt. of tagged P. J. S. Joffe

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MOSOLOV, I. V.

✓Physiological role of sulfur in plants. I. V. Mosolov and L. P. Vollhardt. *Doklady Akad. Nauk S.S.R.* 103, 1045-8 (1956).—Expts. with kidney bean, oats, buckwheat, and mustard plants which were supplied, along with other nutrients, S in the form of $MgSO_4$ (also trace amounts of $MnSO_4$) showed that kidney beans and mustard plants exhibited better growth and deeper leaf color when S was supplied; the other 2 plants showed little effect if any. Increase of S dosage always increased the content of chlorophyll in kidney bean leaves; a similar but weaker response was seen in oats. Most S is accumulated by the plant in its reproductive organs, in organic form only in kidney bean and partly in inorg. form in mustard seeds. Increased dosage of added S results in accumulation of the inorg. form of S. S is assimilated throughout the growing period.

G. M. Kosolapoff

MD

MISOLUV, I.V.

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The entry of calcium into plants. I. V. Mosolov, L. I. Lapshina, and A. V. Panova. *Udobrenia i Upravleniye, No. 7, 24-9 (1956).*—Soil and sola. cultures with corn, sunflower, tomatoes, tobacco, and clover, with Ca^{45} (as $\text{Ca}^{45}(\text{NO}_3)_2$) applied by way of the root system, show that Ca moves to all plant organs. The highest content of Ca^{45} was located in the upper young leaves. However, plants vary in their mode of intake of Ca. A marked difference was noted between the upper and lower leaves of tobacco and sunflower. In tobacco this difference was not so marked. Thus, whereas the Ca^{45} in sunflower gave 838 impulses a minute in the lower leaves and 1283 in the upper leaves, in tobacco the figures were 1124 and 1902, resp. Practically no difference was noted in the upper and lower leaves of corn. Very little Ca^{45} entered the fruit of tomato plants or corn, whereas much Ca^{45} entered the sunflower seed. High activity was noted in the stems and heads of clover, with very little activity in the roots. Foliar application of Ca^{45} gave no indication of any appreciable movement. Some activity was noted in the case of corn plants.

I. S. Ioffe

MOSOLOV, I.V.

The entry of sulfur into plants by way of roots and foliar treatment. I. V. Mosolov and I. P. Volkov. Udebenie i Ureskai 1, No. 6, 1957 (1956), cf. C.A. 50, 7961a. ✓
fed through the roots of beans in field cultures and sunflowers in field cultures enter all plant organs, but in various quantities. The highest amount is found in the young leaves and reproductive organs. In the case of foliar application S³⁵ is found also in the roots. The S³⁵ moves from the leaves downward and back again upwards. I.S.I.

USSR / Cultivated Plants. Grains.

M-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24953

Author : Mesolev, I. V., Dmitriyeva, N. A., Skvortsov, V. F.
Inst : The All-Union S.R.I. of Fertilizers and Agricultural
Soil Science
Title : The Effect of Various Forms of Nitrogen Fertilizers
on the Winter Wheat Yield in Relation to Application
Time

Orig Pub: Byul. nauchn.-tekhn. inform. Vses. n.-i. in-t
udob. i agropochvoved., 1956, No 2, 32-33

Abstract: No abstract.

Card 1/1

21

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Foliar feeding of plants. I. V. Mosolov, A. N. Lapshina, and A. V. Popova. *Zemledelie* 4, No. 2, 121-4 (1950).
Spraying spring wheat with 0.5% soln. of N-P-K (0.1 g. N, P₂O₅, and K₂O per pot during several applications) during blossoming stage did not increase the yield (in some cases it was decreased), but the protein content of the grain increased. Spraying with P raised the content of reducing sugars in the leaves of wheat and slightly increased the sucrose. With K or N-P-K the synthesis of sucrose increased. Spraying clover in bloom in the field with N-P-K at times increased and at others decreased the yield of seed. Superphosphate spray increased slightly the yield of clover seed. Spraying sugar beets with phosphate when leaves contain sugars increases sugar content of the roots. In general, the results are conflicting.

J. S. Joffe

MOSOLOVA, L.V., kandidat sel'skokhozyaystvennykh nauk.

Distribution of the root system of plants as affected by tillage and
fertilizers. Zemledelie 4 no.10:46-48 0 '56. (MLRA 9:11)
(Root (Botany)) (Tillage)

MSCCR/ USSR / Plant Physiology.

Ineral Nutrition

H-3

Abs Jour : Ref Zhur - Biol., No 16, 25 Aug 57, No 68945

Author : Kosolov, I.W., Velloidt, L.F.

Title : Entry of Sulfur into Plants from Root and Above-Ground Deposits.

Orig Pub : Udobronie i urozhai, 1956, No 8, 13-17

Abstract : In introducing solutions of $K_2S^{35}O_4$ on upper and lower leaves of beans it was found that after 12 days S^{35} from the upper young leaf migrates in most cases into the beans, also into young leaves and roots. From the old leaf S^{35} migrates into all parts of the plant, but to a lesser degree into reproductive organs than the roots. In the experiment with introduction of $K_2S^{35}O_4$ on a sunflower leaf it was found that S^{35} accumulated in the young growing leaf. In S^{35} root feeding of sunflower, it was shown that S^{35} accumulates mainly in young plant tissues, which are distinguished by high intensity of protein synthesis, and in the reproductive organs.

Cerd 1/1

USSR / Cultivated Plants. Grains.

M-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24952

Author : Mosolov, I. V., Dmitriyeva, N. A., Skvortsov, V. F.
Inst : The All-Union Inst. of Fertilizers, Soil Science,
and Agricultural Engineering
Title : The Effect of Various Forms of Nitrogen Fertilizers
on the Winter Wheat Yield

Orig Pub: Udobreniya i urozhay, 1956, No 10, 42-43

Abstract: The laboratory of Plant Nutrition of the All-Union Institute of Fertilizers, Soil Science, and Agricultural Engineering experimented on the effect of various forms of nitrogen in spring and autumn side-dressings. The soil was heavy loam, subjected to average cultivation, its pH was 4.6, the hydro-litic acidity 3.85 milliequivalents per 100 grams of soil. In the 1954 tests with a damp fall the

Card 1/2

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Moscow, I.V.

✓ Extraradicle nutrition of plants. I. V. Moskov, A. N. Lapshina, and A. V. Panova. *Zhurn. Akad. Nauk S.S.R.*, 111, 1131-7(1956).—Spraying of plants with NPK fertilizers in soil (wheat and barley) is effective only on relatively poor soils. On good soils the normal root route of nutrition is sufficiently operative to cancel any noticeable effect of extraradicle nutrition. G. M. K.

USSR/Soil Science. Mineral Fertilizers

J

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58327, By A. D.
Aleglan

Author : Mosolov I. V.
Inst : All-Union Institute of Fertilizers and Agro-
Soil Science
Title : Effect of Sulfur on the Yield of Farm Crops
Orig Pub : Udobreniye i urozhay, 1957, No 7, 14-20

Abstract : Studies of the physiological role of S and its
effect of crops which differ by their content
of S (beans, mustard, buckwheat, and oats)
cultivated in sandy soil and in the varied
Knop nutritive mixture, were conducted at the
Laboratory of Plant Nutrition of the All-Uni-
on Institute of Fertilizers and Agro-Soil Scie-
nce. At the beginning of the vegetation period,
beans developed best on variants without S,

Card 1/2

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USSR/Cultivable Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10739

Author : Mosolov, I.V., Panova, A.V.

Inst : VIUA

Title : The Role of Primary and Secondary Roots.

Orig Pub : Kukuruza, 1957, No 7, 27-29.

Abstract : Experiments with the application of P³² in water cultures in the VIUA have determined that plants develop best when both the primary and secondary root systems are preserved. When only one root system was left, a reduction in P³² activity in the plant ash/zola/ was noted, and also reduction in the percentage of P₂O₅ in the corn leaves and stalks. When deprived of their fine hairs the secondary roots absorbed several times less P³². During the blossoming period the secondary roots absorbed three times as

Card 1/2

USSR/Cultivable Plants - Corn

Ref. No. . Ref Zhur. - Biol., No 7, 1970.

much P^{32} in the primary root. When the whole root system was removed, there was a sharp reduction in the plant's intake of mineral salts; in addition development the growth was greatly retarded. Thus, the primary root system plays the primary role in the first phases of development of the corn; before the seedlings are discarded the secondary root system plays the decisive role in furnishing the plant with mineral substances.

Card 2/2

AUTHORS:

Mosolov, I. V., Panova, A. V.

SOV/20-121-2-49/53

TITLE:

On the Role Played by Primary and Secondary Roots in the
Nutrition of Zea Mays (K voprosu o roli pervichnykh i
vtorichnykh korney v pitaniyu kukuruzy)

PERIODICAL:

Doklad Akademii nauk SSSR, 1958, Vol. 121, Nr 2, pp. 373-381
(USSR)

ABSTRACT:

The problem of the importance of the roots mentioned is dealt with in many publications; opinions are rather contradictory (Refs 1-6). The number of primary roots is more or less constant, as is known, whereas that of secondary roots differs greatly. The latter are found close to the surface of the earth. For this reason their development is to a great extent influenced by the moistening conditions of the upper layer of the soil. Often the development of the secondary roots stops when the soil around them becomes dry. Then they remain underdeveloped. Then also the main role in the nutrition is played by the primary roots. The development of the root systems does not take the same course in different soil and climatic zones. On favorable humidity and nutritional conditions the main role will be played by the secondary root system, in the case of

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SOV/20-121-2-49/53

On the Role Played by Primary and Secondary Roots in the Nutrition of Zea Mays

relatively dry weather it will be the primary root system. The best crops, however, were obtained in the case of a simultaneous good development of either root system. Not only the supply of the plants with water and mineral substances but also with many complicated metabolic products from the roots is of importance. In a favorable surrounding the secondary roots quickly regrow and are covered with fine hair-roots and they transform into well functioning roots. However, the role played by the absorption of mineral salts from the soil by secondary roots as compared to primary roots remains unclear. The authors investigated this problem by means of radioactive phosphorus. From the data in table 1 may be seen that the cutting cut of one of the two systems from the nutrient substrata leads to a great reduction of the phosphorus supply into the plant. The growth is hampered by that fact. From table 1 may also be seen that the primary and secondary roots have an almost equal absorption power for phosphorus from the nutrient solution. During efflorescence the secondary roots absorbed more phosphorus than the primary roots, as the latter loose to a great extent their absorption power at that time. There are 2 figures, 2 tables, and 13 references, 12 of which are Soviet

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SOV/20-121-2-49/53

On the Role Played by Primary and Secondary Roots in the Nutrition of Zea
Mays

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i
agropochvovedeniya (All Union Scientific Research Institute
of Fertilizers and Agropedology)

PRESENTED: April 1, 1958, by A. L. Kursanov, Member, Academy of Sciences,
USSR

SUBMITTED: February 21, 1958

Card 3/3

MOSCIOV, I.V.; REMPE, Ye.Kh.; ALEKSANDROVSKAYA, V.A.

Interrelation between higher plants and micro-organisms. Agrobiologiya no.3:425-430 My-Je '59. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya, laboratori fiziologii pitaniya rasteniy i mikrobiologii.
(Soil micro-organisms) (Botany--Physiology)

MOSOLOV, I.V.; MOSOLOVA, L.V.

Effect of gibberellin on the growth and development of farm crops. Izv.AN SSSR.Ser.biol. no.4:577-589 Jl-Ag '59.
(MIRA 12:9)

1. The Union Research Institute of Fertilizers and of Soil
Science, Moscow.
(GIBBERELLIN)

MOSOLOV, I.V.; VOLLEYDT, L.P.

Effect of nutrient ratio on phosphorus metabolism, growth, and yield
of corn. Izv. AN SSSR. Ser. biol. no.2:262-270 Mr-Ap '60.
(MIRA 14:3)

1. The Union Research Institute of Fertilizers and Agropedology.
(CORN (MAIZE)--FERTILIZERS AND MANURES)
(PLANTS, EFFECT OF NITROGEN ON)
(PLANTS, EFFECT OF PHOSPHORUS ON)

MOSOLOV, I.V.; MOSOLOVA, L.V.

Physiological role of gibberellin in plants. Dokl. AN SSSR 136
no.2:487-489 '61.
(MIRA 14:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i
agropochvovedeniya. Predstavлено akademikom A.L. Kursanowym.
(Gibberellins)

MOSOLOVA, L.V., kand. sel'skokhozyaystvennykh nauk; MOSOLOV, I.V., kand.
sel'skokhozyaystvennykh nauk

Use of gibberellic acid. Zemledelie 24 no.8:73-75 Ag '62.
(MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i
agropochvovedeniya.
(Gibberellic acid)

MOSKALOV, I.V.; CHERNOV, Ye...

Metabolism and productivity of corn as related to the conditions
of nutrition. Izv. VSSSE. Ser. biol. 31 no.1:84-91 Ja-F '66.
(MIFB 19:1)

I Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy.
Submitted April 2, 1964.

MOSOLOV, K.

Radical reorganization has begun. Proizv. obuch. 5 no.1:18-19 Ja '48.
(MLRA 7:6)

1. Direktor Leningradskogo remeslennogo uchilishcha metallistov No.2.
(Technical education)

MOSOLOV, K.V.; BARKOV, V.P.; VASIL'EV, R.F., BIBIKOV, A.G.;
KAREM'YANTSEV, S.N.; LOM'YENKO, N.I., kand. tekhn.
nauk, retsenzenty; LAVRUKOV, Ye.I., inzrn., retsenzenty;
BARSKIY, M.E., kand. tekhn. nauk, red.

[Fundamentals of the mechanization and automation of
production processes] Fundovy mekhanizatsii i avtomati-
zatsii proizvodstva. Moscow, Mashinostroenie, 1962.
198 p. (Mash. 13-1)

KOSOLOV, KONSTANTIN VASIL'YEVICH

N/5
741.416
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1955

Sbornik Zadach, Uprazhneniy i Voprosov Po Tokarnomu Delu (v Pomoshch' Izuchayushchim Tokarnoye Delo) (Handbook of Problems, Exercises, and Questions on Lathe Work) Izd. 2., Isprav. 1 Dop. Moskva, Truderezervizdat, 1955.
79 p. Diagrs., Tables.

MOSOLOV, K.; RYBAKOV, P., prepodavatel' spetsial'noy tekhnologii.

Studying progressive technology. Prof.-tekhn. obr. 12 no.11:
7-8 N '55.
(MLRA 9:2)

1. Direktor remeslennogo uchilishcha No.2 (Leningrad).
(Metal cutting--Study and teaching)

MOSOLOV, Konstantin Vasil'yevich; GAVRILOV, F.P., red.; MATUSEVICH, N.L.,
tekhn.red.

[Sixty problems for young designers and inventors] 60 zadach dlia
molodogo konstruktora i izobretatelya. Moskva, Vses.uchebno-
pedagog.isd-vo Trudreservizdat, 1957. 48 p. (MIRA 12:6)

1. Direktor tekhnicheskogo uchilishcha No.11 g.Leningrada (for Mo-
solov).

(Machinery--Drawing)

Mosolov, K.

27-10-3/21

AUTHOR: Mosolov, K., Director of the Leningrad Technical School # 11

TITLE: Behind the Narvskaya Zastava (Za Narvskoy zastavoy)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, 1957, # 10,
p 9-11 (USSR)

ABSTRACT: Behind the Narvskaya Zastava is the place where the Putilov Plant, now called the Kirov Plant, was established. The author tells about the school which existed at the Putilov Plant before the Soviets gained power, and then refers to the new form of instruction used now, since the school of the working youth was organized. It was later converted into the Industrial School (FZU - Fabrichno-zavodskoye uchilishche), which subsequently was re-organized into Trade School # 2, and now carries the name of Technical School # 11. The article describes the different phases of development, the hard times experienced by the school during World War II, and the help rendered to the school by the Kirov Plant. In recent years, the school manufactured a scissor-press and the drilling machine 211BA a photo of which is contained in the article.

Card 1/2

There are 2 photos.

MOSOLOV, Konstantin Vasil'yevich; SHAKHOVA, L.I., red.; BARANOVA, N.N.,
tekhn. red.

[One hundred problems for a young designer and inventor] 100
zadach dlia molodogo konstruktora i izobretatelia. Moskva,
Vses. uchebno-pedagog. izd-vo Proftekhnizdat, 1961. 78 p.
(MIRA 15:3)

(Mechanical engineering--Problems, exercises, etc.)

BAUSHEV, Nikolay Mikhaylovich; SHAMOV, Boris Pavlovich; MOSOLOV,
K.V., nauchn. red.; TIKHONOVА, N.V., red.; BARANOVA,
N.N., tekhn. red.

[Modernization of training-shop equipment] Modernizatsiya
oborudovaniia uchebnykh masterskikh. Moskva, Proftekhizdat,
1963. 52 p.
(MIRA 17:1)

SEMELEV, B.; MOSOLOV, K.; GAL'PERIN, S.

Experience of veterans to the service of science. Prof.-tekhn.obr.
22 no.4:18 Ap '65. (MIRA 18:5)

BASTOV, Viktor Fedorovich; IVANOV, Rodion Prokof'yevich;
IPPOLITOV, Anatoliy Georgiyevich; MAREM'YANICHEV, S.N.;
MOSOLOV, K.V.; IONOV, V.N., red.

[Teaching of the fundamentals of production mechanization
and automation] Prepodavanie osnov mekhanizatsii i avto-
matizatsii proizvodstva. Moskva, Vysshiaia shkola, 1965.
157 p. (MIRA 18:7)

MOSOLOV, L.P.

New method for collecting ectoparasites from rodents without destruction of the host population. Med.paraz. i paraz.bol. 28 no.2:189-193 Mr.Ap '59. (MIRA 12:6)

1. Iz Moskovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (glavnnyy vrach D.T.Fokin).

(RODENTS

ectoparasites, collection without destroying hosts (Rus))

(PARASITES

ectoparasites of rodents, collection without destroying hosts (Rus))

MOSCOV, L.P.

Incidence of the tick *Ixodes apronophorus* P. Sch. in Moscow
Province and some observations on the natural focus of tularemia.
Med.paraz.i paraz.bol. no.3:304-306 '61. (MIRA 14:9)

1. Iz Moskovskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii (glavnnyy vrach D.T. Fokin).
(TULAREMIA) (MOSCOW PROVINCE--TICKS)

POTAPOV, A.A.; MOSOLOV, L.P.

Number and epidemiological significance of water rats in water reservoirs. Biul.MOIP.Otd.biol. 67 no.4:5-15 Jl-Ag '62.
(MIRA 15:1C)
(WATER VOLFS AS CARRIERS OF DISEASE)

MOSOLOV, L.P.; DOBROKHOTOV, B.P.; FRONINA, Ye.A.

Survey of the abundance and epizootic state of murine rodents,
including the water rat, in the R.S.F.S.R. in 1962 and the
prognosis for 1963. Biul. MOIP. Otd. biol. 68 ~~■•3:10-13~~
My-Je '63.

(MIRA 17:8)

OLSUF'YEV, N.G.; MOSOLOV, L.P.

Horseflies in Moscow Province. Zool. zhur. 43 no.15, 1964
1487 '64. (MLPA 17 12)

1. Laboratoriya tulyaremi otdela prirodnoochagovykh infektsiy
Instituta epidemiologii i mikrobiologii Akademii Meditsinskikh
nauk SSSR (Moskva) i otdel osobo opasnykh infektsiy Moskovskoy
oblastnoy sanitarno-epidemiologicheskoy stantsii.

VANEV, I.I.; GORLOVSKIY, S.I.; ZASFIKHIN, N.V.; LIPKINA, T.Ye.; Prinimali
uchastiye: LAZAREVSKIY, A.F.; ZELENOVA, I.M.; VOLOSMIKOVA, T.F.;
TOMKOVID, Ye.I. [deceased]; PETROV, I.V.; MOSCOV, M.V.;
NIKIFOROVA, D.I.

Use of high molecular organic depressants in the flotation of
copper-nickel ores. Obog. rud 6 no.2:3-9 '61. (MIRA 14:8)

(Flotation—Equipment and supplies) (Nonferrous metals)

FIALKOVSKAYA, T.; MOSCOV, N.; DULINTSEV, L.

Ventilation of chambers used for motor-vehicle painting.
Avt.transp. 39 no.10:27-29 C '61. (MIRA 14:10)
(Motor vehicles—Painting)

Mosolov, N.I.

MOSOLOV, N.I., kand. sel'skokhozyaystvennykh nauk.

Developing the raising of medium-wool sheep of the Corriedale type
in the Ukrainian forest-steppe. Zhivotnovodstvo 20 no.2:27-31 P '58.
(MIRA 11:1)

1. Institut zhivotnovodstva Lesostepi i Poles'ya Ukrayny.
(Ukraine--Sheep)

MAKSAKOV, V.Ya.; MOSOLOV, N.I.; OLEYNIK, T.N.

Possibility of a direct-observation evaluation of cattle carcasses.
Izv.vys.ucheb.zav.; pishch. tekhn. no.3:167-170 '63. (MIRA 1648)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva Lesostepi
i Poles'ya UkrSSR.
(Meat industry)

SEMAK, I.L., kand.sel'skokhoz.nauk; MAKSAKOV, V.Ya., kand.sel'skokhoz.nauk;
MOSOLOV, N.I., kand.sel'skokhoz.nauk

Summer fattening of young cattle on corn silage. Zhivotnovodstvo
(MIRA 16:10)
24 no.5:29-32 My '62.

1. Nauchno-issledovatel'skiy institut zhivotnovodstva lesostepi i
Poles'ya UkrSSR.

SOV/111-58-4-21/34

AUTHORS: Kosolov, N.K., Engineer-Mechanic of the Central Designing Office of the USSR Ministry of Communications

TITLE: The Dust Removing Machine Type "POM-5" (Obespylivayushchaya mashina tipa "POM-5")

PERIODICAL: Vestnik svyazi, 1958, Nr 4, p 26 - 28 (USSR)

ABSTRACT: Mail bags contain a considerable amount of dust which pollutes the air when removed. Conventional ventilation systems are not suitable to remove this dust, because they are not effective enough, or they remove too much air which causes excessive cooling of the sorting room in winter. The Tsentral'noye konstruktorskoye byuro Ministerstva svyazi SSSR (Central Designing Office of the USSR Ministry of Communications) developed the dust removing machine "POM-5". This machine (Figure 2) is an inclined belt conveyer enclosed by a housing through which the dust is removed. Figure 1 shows the position of this machine in a mail processing line. The mail bags are emptied into the feed bunker of the machine whereby the dust is removed while the contents is transported by the conveyer to the processing line. The "Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany

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The Dust Removing Machine Type "POM-5"

SOV/111-58-4-21/34

truda"-VTsSPS- (All-Union Scientific Research Institute for Labor Protection) conducted aerodynamic tests on the machine for selecting the most suitable ventilation speed. It is planned to install machines of this type at the Kiyev and Novosibirsk post offices. A plant of the USSR Ministry of Communications will produce a series of these machines to be installed at various post offices. There are 4 diagrams.

1. Messenger pouches--Cleaning
2. Air--Contamination
3. Machines--Performance

Card 2/2

MOSOLOV, N.N., assistent

Arteries in the trunk of the facial nerve in newborn infants. Teor.
i prak.stom. no.5:28-33 '63. (MIRA 18:3)

1. Iz kafedry normal'noy anatomi (zav. - prof. N.V.Kolesnikov)
Moskovskogo meditsinskogo stomatologicheskogo instituta.

MOSOLOV, P. P.

34027 Finansovyy plan predpriyatiya. Lepkaya prom-st', 1949, No. 10, s. 12-14

SO: Letopis' Zhurnal'nykh Steney, Vol. 45, Moskva, 1949

MOSOLOV, P.P.

Dirichlet problem for partial differential equations. Izv. vys.
ucheb. zav.; mat. no. 3:213-128 '60. (MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
(Differential equations, Partial)

16.350031907
S/039/61/055/003/003/004
D299/D304AUTHOR: Mosolov, P.P. (Moscow)

TITLE: On a boundary-value problem for hypoelliptic operators

PERIODICAL: Matematicheskiy sbornik, v. 55, no. 3, 1961, 507-528

TEXT: Properties of the solutions to hypoelliptic equations are studied, in particular - the boundary value problem. Hypoelliptic operators, as defined by L. Hörmander (Ref. 2: On the theory of general partial differential operators, Acta Math., 94, 1955, 161-248) possess the property that all the solutions to the equation

$$Bu = 0 \quad (3)$$

where B is a hypoelliptic operator, are infinitely differentiable functions. The class of hypoelliptic operators contains all the elliptic operators; the boundary-value problem considered involves the equation

$$Au = f \quad (1)$$

where A is an elliptic differential operator of order $2m$ and the boundary conditions

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On a boundary-value problem ...

$$u \Big|_{\Gamma} = 0, \dots, \frac{\partial^{m-1} u}{\partial n^{n-1}} \Big|_{\Gamma} = 0. \quad (2)$$

The author was unable to formulate explicitly the boundary conditions for all hypoelliptic operators; yet he succeeded in doing this for a certain class of hypoelliptic operators, called stable. The class of stable hypoelliptic operators contains, in particular, all the elliptic operators. Only symmetrical hypoelliptic operators with real coefficients are considered. Construction of generalized solution is examined: Let $A(\partial/\partial x_1, \dots, \partial/\partial x_n)$ be a differential operator with constant coefficients, satisfying certain conditions. The generalized solution of the boundary-value problem for the equation

$$A\left(\frac{\partial}{\partial x_1}, \dots, \frac{\partial}{\partial x_n}\right)u(x_1, \dots, x_n) = f(x_1, \dots, x_n) \quad (22)$$

is the function $u \in H(D)$ which minimizes the function

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S/039/61/055/003/003/004

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On a boundary-value problem ...

$$F(v) = (Av, v) - 2(v, f) \quad (23)$$

($H(D)$ is the Hilbert space). By Riesz's theorem on linear functionals in Hilbert space, one obtains

$$(f, u) = \{Lf, u\}, \quad (24)$$

where L is a bounded operator, defined on $L_2(D)$. The obtained solution is unique. Theorem 1. For any right-hand side $f \in L_2(D)$, Eq. (22) has a generalized solution $u \in H(D)$. The operator L can be expressed by

$$Lf = \int_{\bar{D}} \int G(x_1, \dots, x_n; \xi_1, \dots, \xi_n) f(\xi_1, \dots, \xi_n) d\xi_1 \dots d\xi_n \quad (30)$$

Theorem. Equation $Au = f$, $f \in C_0^\infty(D)$ has a unique solution $u(x_1, \dots, x_n) \in H(D)$; this solution is an infinitely differentiable function in $\bar{D} \setminus S$ (S being a manifold related to the characteristic equation). (The equation $Au = f$ has many infinitely differentiable solutions, but only one of them belongs to the space $H(D)$). The boun-

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On a boundary-value problem ...

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dary conditions for the functions in the space $H(D)$, are ascertained. For simplicity, it is assumed that the operator A relates to two-dimensional space. The polynomial $A(\sigma_1, \sigma_2)$ is made to correspond with the operator $A(\partial/\partial x_1, \partial/\partial x_2)$. The polynomial $A(\sigma_1, \dots, \sigma_n)$ is defined as stable, if the polynomial $A(\sum a_{1j} \xi_j, \dots, \sum a_{nj} \xi_j)$ remains positive for arbitrary sufficiently small changes of the coefficients. To a stable polynomial there corresponds a stable operator, and to an unstable polynomial - an unstable operator. If the polynomial is stable, then the space $H(D)$ contains functions which satisfy the boundary conditions X

$$D^\alpha \varphi = 0 \quad (55)$$

where D^α is a derivative, φ is a function of x_i , Γ is the boundary of D . Theorem 5. If the function $u(x_1, \dots, x_n)$ belongs to $C^{(1/2)}(\bar{D})$, where i is the order of the operator, A , and satisfies (55).

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On a boundary-value problem ...

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then it belongs to the space $H(D)$. On the solvability of the boundary-value problem for the equation $Au = f$, $f \in C^m(\bar{D})$, by analogy with the case $f \in C_0^\infty(D)$, it is shown that the boundary value problem can be also solved if $f \in C^m(\bar{D})$. In the following, Whitney's theorem is used. Finally, the author arrives at Theorem 6.5. If A is a stable hypoelliptic operator, then the equation $Au = f(\bar{x})$, $f \in C^m(\bar{D})$, has a unique solution $u(\bar{x})$ which satisfies the boundary conditions

$$D^\alpha u(\bar{x}) \Big|_{\Gamma} = \varphi_{\alpha_1, \dots, \alpha_n}(\bar{x}), \quad (67)$$

where $\varphi \in C^m(\Gamma)$. It is noted that the last theorem is not an exact one. It is also noted that analogous results can be obtained for hypoelliptic operators with variable coefficients. Four examples are given of boundary-value problems. There are 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc, (including 2 translations). The references to the English-language publications read as follows: L. Hörmander, On the theory of general partial differential operators, Acta Math., 94, 1955, 161-248; H. Whitney, Analytical extensions of

Card 5/6

On a boundary-value problem ...

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3/9/61/055/003/003/004
D299/D304

differentiable functions defined in closed sets. Trans. Amer. Math.
Soc., 36, 1934, 63-78.

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SUBMITTED: January 25, 1960

Card 6/6

MOSOLOV, P.P. (Moskva)

Generalized first boundary value problem for a certain class
of differential operators. Part 1. Mat.sbor. 57 no. 1:333-
374 Jl '62. (MIRA 15:8)
(Operators (Mathematics)) (Boundary value problems)

S/020/62/144/001/005/024
B112/B102

AUTHOR: Mosolov, P. P.

TITLE: Differential properties of the solutions of stable
hypoelliptic equations

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 1, 1962, 44-47

TEXT: The author considers equations $\mathcal{P}u = f$, where the differential
operator

$$\mathcal{P}\left(x, \frac{\partial}{\partial x}\right) = \sum_{\alpha_1 \dots \alpha_n} a_{\alpha_1 \dots \alpha_n}(x) \frac{\partial^{\sum \alpha_i}}{\partial x_1^{\alpha_1} \dots \partial x_n^{\alpha_n}}$$

can be represented in the form

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S/020/62/144/001/005/024
B112/B102

Differential properties of the ...

$$\mathcal{P}\left(x, \frac{\partial}{\partial x}\right) = \sum_{i_1 \dots i_n}^{\sum i_k} (-1)^{\sum i_k} \frac{\partial^1}{\partial x_{i_1}^{i_1} \dots \partial x_{i_n}^{i_n}} a_{i_1 \dots i_n}(x) \frac{\partial^1}{\partial x_{i_1}^{i_1} \dots \partial x_{i_n}^{i_n}} - \\ + \sum_{a_{i_1} \dots a_{i_n}, s} (-1)^{\beta_1} D_{1, a_{i_1} \dots a_{i_n}, s}^{\beta_1} c_{2, i_1, \dots, 2a_{i_s}, 2a_{i_s+1}, \dots, 2a_{i_n}+1}(x) D_{2, a_{i_1} \dots a_{i_n}, s}^{\beta_2}$$

$$\text{with } D_{1, a_{i_1} \dots a_{i_n}, s}^{\beta_1} = \frac{\partial^{\beta_1}}{\partial x_{i_1}^{a_{i_1}} \dots \partial x_{i_s}^{a_{i_s}} \dots \partial x_{i_{s+k}}^{a_{i_{s+k}}+1+k-2[\frac{k}{2}]} \dots \partial x_{i_n}^{a_{i_n}+1+n-s-[\frac{n-s}{2}]}};$$

$$D_{2, a_{i_1} \dots a_{i_n}, s}^{\beta_2} = \frac{\partial^{\beta_2}}{\partial x_{i_1}^{a_{i_1}} \dots \partial x_{i_s}^{a_{i_s}} \dots \partial x_{i_{s+k}}^{a_{i_{s+k}}+2[\frac{k}{2}]-k} \dots \partial x_{i_n}^{a_{i_n}+2[\frac{n-s}{2}]-(n-s)}};$$

For this operator \mathcal{P} , conditions of stability and hypoellipticity are formulated. Two theorems are derived which relate the space of the solutions u to the spaces that contain the coefficients of the operator \mathcal{P} and the function f .

PRESENTED: December 25, 1961, by P. S. Aleksandrov, Academician
SUBMITTED: December 22, 1961
Card 2/2

S/020/62/144/002/003/028
B112/3102

AUTHOR:

Mosolov, P. P.

TITLE:

An analogon to the first boundary value problem for stable
hypoelliptic operators

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 2, 1962, 275-278

TEXT: The first boundary value problem for the equation

$$\mathcal{P}(x, \frac{\partial}{\partial x})u_0(x) = f(x) \text{ in a bounded domain } D, \text{ where}$$

$$\mathcal{P}\left(x, \frac{\partial}{\partial x}\right) = \sum_{i_1 \dots i_n} (-1)^{\sum i_k} \frac{\partial^{\sum i_k}}{\partial x_1^{i_1} \dots \partial x_n^{i_n}} a_{i_1 \dots i_n}(x) \frac{\partial^{\sum i_k}}{\partial x_1^{i_1} \dots \partial x_n^{i_n}} +$$

$$\sum_{i_1 \dots i_n} (-1)^{i_1} D_{1, i_1, \dots, i_n}^{\alpha_1, \alpha_2, \dots, \alpha_n} C_{2, i_1, \dots, i_n}^{2, i_1, \dots, i_n+1, \dots, 2, i_n+1}(x) D_{2, i_1, \dots, i_n}^{\alpha_1, \alpha_2, \dots, \alpha_n}$$

and

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B112/3102

An analogon to the first ...

$$D_{1, \alpha_1, \dots, \alpha_n}^{\beta_1} = \frac{\partial^{\beta_1}}{\partial x_{i_1}^{\alpha_{i_1}} \dots \partial x_{i_s}^{\alpha_{i_s}} \dots \partial x_{i_{s+k}}^{\alpha_{i_{s+k}} + 1 + k - s \left[\frac{n-s}{2} \right]} \dots \partial x_{i_n}^{\alpha_{i_n} + 1 + n - s - 2 \left[\frac{n-s}{2} \right]}}.$$

$$D_{2, \alpha_1, \dots, \alpha_n}^{\beta_2} = \frac{\partial^{\beta_2}}{\partial x_{i_1}^{\alpha_{i_1}} \dots \partial x_{i_s}^{\alpha_{i_s}} \dots \partial x_{i_{s+k}}^{\alpha_{i_{s+k}} + s \left[\frac{n-s}{2} \right] - k} \dots \partial x_{i_n}^{\alpha_{i_n} + s \left[\frac{n-s}{2} \right] - n + s}}.$$

is extended to a corresponding generalized boundary value problem of which the solutions $u_0(x)$ are contained in the Hilbert space $H_k(D) \subset L_2(D)$; that is, the closure of the space $C_0^\infty(D)$ with respect to the norm

$$\|u\|_H = \left(\sum_{D} i_1 \dots i_n |u(x)|^2 \left| \frac{\partial^{\sum_{i=1}^n i_k y(x)/\partial x_1^{i_1} \dots \partial x_n^{i_n}}}{dx} \right|^2 \right)^{1/2}.$$

PRESENTED: December 25, 1961, by P. S. Aleksandrov, Academician
SUBMITTED: December 22, 1961

Card 2/2

MOSOLOV, P.P.

Riesz's theorem and the analogue of the first boundary value problem for differential equations in an unbounded region. Vest. Mosk. un. Ser. 1: Mat., mekh. 18 no.2:13-18 Mr-Ap '63. (MIRA 16:6)

1. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo universiteta.
(Boundary value problems) (Differential equations)

MOSOLOV, P.P. (Moskva)

Generalized first boundary value problem for a certain class of
differential operators. Part 2. Mat. sbor. 59 (dop.):165-188
'62, (MIRA 16:6)
(Operators (Mathematics)) (Boundary value problems)

MOSOLOV, P.P. (Moskva)

Differentiability of generalized solutions of differential equations⁴
Mat. sbor. 59 (dop.) 189-194 (MIRA 16:6)
(Differential equations)

MOSOLOV, P.P.

Boundary value problem for symmetric differential operators.

Vest. Mosk. un. Ser. 1: Mat., mekh. 21 no.1:64-69 Ja-F '66.

(MIRA 19:1)

1. Kafedra matematicheskogo analiza Moskovskogo gosudarstvennogo
universiteta. Submitted June 9, 1964.

MOSOLOV, V.F., ramestitel' predsedatelya.

Twenty-fifth anniversary of the "Moscow House Building Trust." Gor.khot.
Mosc. 21 no.4:22-34 Ap '47. (MLB 6:11)

1. Ispolnitel'nyy komitet Moskovskogo Soveta. (Moscow--Building)

MOSOLOV, V.F.

Mosolov, V. F. "Means of reducing the labor required for construction,"
Sbornik rabot pl mest. stroit. materialam (Upr. prom-sto stroymaterialov i stroydetalej
Mosgorispolkoma, Nauch.-issled. i eksperim. stantyi), Issue 1, 1948, p. 11-16

SO: U-3264, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No 4, 1949).

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001135410006-0

MOSOLOV, V.N., inzh.

Automatic voltage regulation in a d.c. busbar system. Elek.
sta. 34 no.8:78-79 Ag '63. (MIRA 16:11)

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MOSOLOV, V. V.

MOSOLOV, V. V.: "On the laws of the kinetics of fermentative hydrolysis of globular proteins". Moscow, 1955. Publishing House of Professional Literature. Inst of Biochemistry imeni A. N. Bakh, Acad Sci USSR. (Dissertations for the degree of Candidate of Biological Sciences.)

SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow.

MOSOLOV, V.V.

USSR/ Chemistry - Biochemistry

Card 1/1 Pub. 22 - 28/54

Authors : Afanasyev, P. V., and Mosolov, V.V.

Title : Combined action of ferment.

Periodical : Dok. AN SSSR 100/3. 507-510, Jan 21, 1955

Abstract : Theoretical investigations were conducted to determine the combined effect of two ferments (biological catalysts) catalyzing one and the same chemical process and to establish whether the catalytic effect will considerably deviate from the total effects produced by individual ferments. The results obtained are described. Eight references: 4 USSR, 1 USA and 1 German ('1898-1950). Table, graph.

Institution : Academy of Sciences USSR, The A. N. Bakh Institute of Biochemistry

Presented by: Academician A. I. Oparin, October 20, 1954

USSR/Human and Animal Physiology - Metabolism. Ferments.

1-1

Abs Jour : Ref Zhur - Biol., No 18, 1958, 33878

Author : Mosolov, V.V.

Inst :

Title : The Specific Activity of Proteinases.

Orig Pub : Uspekhi sovrem. biol., 1957, 44, No 3, 300-312

Abstract : No abstract.

Card 1/1

SOV/30-58-9-24/51

AUTHORS: Areshkina, L. Ya., Candidate of Biological Sciences
Glikina, M. V., Candidate of Biological Sciences, Moscow,
V.V., Candidate of Biology

TITLE: News in Brief (Kratkiye soobshcheniya) Methodological Symposium
on the Structure of Albumin (Metodicheskiy simpozium po strukture
belkov)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 9, pp. 92 - 93 (USSR)

ABSTRACT: The symposium took place in Prague (Praga) from June 2 to
14. It had the purpose of informing scientists from other
countries on the latest methods of albumin research of the
Khimicheskiy institut Chakgoslovatskoy Akademii nauk (Chemical Institute of the Czechoslovakian Academy of Sciences).
It was attended by representatives of the Soviet Union, Poland,
Hungary, Bulgaria, the Chinese People's Republic. Practical
work was explained and reports were delivered in Russian
and German. In the Khimicheskiy institut (Chemical Institute)
an instrument for electrophoresis and a new method of
chromatography was shown. A simple and handy instrument for
the separation of higher peptides from lower ones was
demonstrated

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